

Date: Wed, 18 Aug 93 04:30:14 PDT
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #17
To: Ham-Ant

Ham-Ant Digest Wed, 18 Aug 93 Volume 93 : Issue 17

Today's Topics:

 Balanced Feed Switch Box.
 Comments on the MFJ 1796 Halfwave Vertical.
Is there such thing as an omnidirectional antenna in 3 dimensions?
 Need information on duplexers
Using a horizontally polarized antenna on 2m.-good or bad idea?
 YAGI antennas in stormy weather?

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 17 Aug 93 11:52:13 CDT
From: timbuk.cray.com!walter.cray.com!rps@uunet.uu.net
Subject: Balanced Feed Switch Box.
To: ham-ant@ucsd.edu

I would like to run 3 longwire/Dipoles and would like to switch and phase between them.

I'm sort of a purest in that I don't believe in traps an baluns. I also don't want to attract attention by having traps suspended in plain sight. j

Balanced open ladder line is the least lossy but can be quite ugly, so I was wondering:

Does anyone make a remote switch box for Balanced Line?

Has anyone seen plans for a balanced wire switch box?

If not, I am willing to make one:

- *) Looking for some ideas on how to do this.

- *) If I use relays for switching my ladder lines to different dipole antennas .

- *) will they interfere with the impedance?

- I plan on them normally being closed when without power and grounded when not in use.

- *) How much db loss could I expect if I use relays.

- *) Do relays operate in sub-zero weather? (It get cold up here in MN!)

- *) What is a good solution for a lightning arrestor for ladder line?

I plan on running 3 Dipoles and would like to switch and phase between them.

Thanks!

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/_)
/_/_/_/_/_/_/_/_)_ _ Russ Starksen ,,, Fax: (612) 683-3699
/_/_/_/_/_/_/_/_)_ _ rps@cray.com (.~.) phone: (612) 683-3635
-... . -. ----- -- .-. .-. -----o00--(_)--00o----- NOMRR @ KB0GF.MN.USA.NOAM

Date: 17 Aug 93 16:16:31 CDT

From: pravda.sdsc.edu!news.cerf.net!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!
uwm.edu!linac!uchinews!raistlin!timbuk.cray.com!walter.cray.com!

rps@network.ucsd.edu

Subject: Comments on the MFJ 1796 Halfwave Vertical.

To: ham-ant@ucsd.edu

Has anyone tried the MFJ Halfwave vertical antenna?

I'm just wondering what opinions are on this antenna.

- *) Are there any reviews on the MFJ HF antenna in periodicals like QST or CQ Magazine?

- *) How well does the MFJ perform. (rate 1-10)
Any contacts on those bands?

- *) 2m

- *) 6m
- *) 10m
- *) 15m
- *) 20m
- *) 40m

- *) How well is it built? (rate 1-10)
- *) Setting it up? (rate 1-10)
- *) Documentation? (rate 1-10)

Cheers!

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  _ _
 / _ )      Russ Starksen      , , ,      Fax: (612) 683-3699
/ \ _/_/_/_/_/_/_ _ rps@cray.com  (.~.) phone: (612) 683-3635
-.. . -. ----- -. .-. -----o00--(_)--00o----- NOMRR @ KB0GF.MN.USA.NOAM

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Date: 18 Aug 1993 06:02:06 GMT
 From: europa.eng.gtefsd.com!mozart.amil.jhu.edu!ishtar.med.jhu.edu!
 roberts@uunet.uu.net
 Subject: Is there such thing as an omnidirectional antenna in 3 dimensions?
 To: ham-ant@ucsd.edu

[I originally posted this to sci.electronics, but I thought that the device that I'm looking for might be something that is in common use by amateurs and broadcasters. Sorry if it doesn't seem relevant. dcr]

Hi all,

I'm looking for an antenna of some sort that I can use as an omnidirectional field strength indicator. We have a system that produces 3 orthogonal (at 90 degrees to one another) magnetic fields at 3 frequencies. The 'emitters' are mounted on a 40 inch cubical frame, so that at the center of the cube, you get 3 fields that are approximately orthogonal to each other. We use it to measure the gaze direction of the eyeball by placing a small coil of wire embedded in a contact lens onto the eye. A wire is run from the eyecoil to an amplifier which separates the 3 frequencies and gives us the strength of each of the fields as picked up by the (very directional) coil of wire. To get our math right, we need to detect the relative strength of the 3 fields very near the eyecoil.

Date: Wed, 18 Aug 1993 10:17:25 GMT

From: swrinde!emory!sol.ctr.columbia.edu!destroyer!newsrelay.iastate.edu!
news.iastate.edu!jdwhite@network.ucsd.edu
Subject: Need information on duplexers
To: ham-ant@ucsd.edu

I would like to learn more about duplexers and how to maintain and "configure" them. Any suggestions on where I might look for some good information. I looked in the '92 Handbook, but all I found was a paragraph on what duplexers were; nothing on how to maintain them.

-Jason White, NORWU
Repeater Chairman, WA0KHF Repeater
Cyclone Amateur Radio Club
Iowa State University
Ames, Iowa

Date: 18 Aug 93 09:08:46 GMT
From: news.service.uci.edu!orion.oac.uci.edu!easu348@network.ucsd.edu
Subject: Using a horizontally polarized antenna on 2m.-good or bad idea?
To: ham-ant@ucsd.edu

I got advise from someone that it is helpful to use a horizontally polarized antenna on 2m. I live in an area with heavy population with a good amount of jamming lately. This person said that with his horizontally polarized antenna he can cut through the QRM with ease, even only running a few watts. I was wondering what people's opinions are out here about doing that before I went out and bought a new antenna for the house. Thanks much.

--
Andrew Parker | KD6TGM | easu348@orion.oac.uci.edu

Date: 18 Aug 1993 09:18:24 GMT
From: pipex!sunic!trane.uninett.no!nntp.uio.no!nntp-oslo.uninett.no!NewsWatcher!
user@uunet.uu.net
Subject: YAGI antennas in stormy weather?
To: ham-ant@ucsd.edu

I have a 3 el. 3 band HY-GAIN YAGI antenna. It is located on a tower about 13 m. above the ground. At my qth it is very stormy weather in the winter. My question is: In which direction do you have your YAGIS when it is much wind. Do you "beam" right against the wind? What do you think is best??

73 de Tom/LA1BJA -16 year old- 3 month old licence

-Tom Rune Lauknes LA1BJA "Why are the whales so special?"
-
-NORUT IT A.S
-
-e-mail:Tom-Rune.Lauknes@itek.norut.no
-

Date: (null)
From: (null)
Thanks in advance,
dale, roberts@ishtar.med.jhu.edu

Date: 18 Aug 1993 05:25:36 GMT
From: munnari.oz.au!metro!basser.cs.su.oz.au!news.adelaide.edu.au!
bvandepe@uunet.uu.net
To: ham-ant@ucsd.edu

References <1993Aug07.004648.7781@moe.corollary.COM>,
<243bkoINNb4@gap.caltech.edu>, <crispCBGCy0.8JG@netcom.com>
Subject : Re: Wavelength formula

crisp@netcom.com (Richard Crisp) writes:

>In article <243bkoINNb4@gap.caltech.edu> slr@cco.caltech.edu (Steve L. Rhoades)
writes:

>

>For those interested in a bit more rigorous treatment:

> $\lambda * f$ = velocity of propagation (speed of light for a radio wave in air or
> vacuum)

>where λ = wavelength

> f = frequency

>for the approximation that light travels at the speed of 3×10^8 meters/sec

> $\lambda * \text{freq} = 3 \times 10^8$

>let $\text{freq} = 300\text{mhz}$:

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>lambda = (300x10**6 m/sec)/(300x10**6 cycles/sec)
>      = 1 meter
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Well, if you're going to be rigorous, you should use the correct SI exponent abbreviation for millions of Hz. 300 MHz is some 10^{12} times smaller than 300 MHz.

Just being picky... :-)

Regards,

--

Brenton Vandepeer, Moon jet brave beam split ceiling swerve
Department of Physics, and light the old Valhalla.
University of Adelaide. Come join with us please - Valkyrie maidens cry
bvandepe@physics.adelaide.edu.au above the Cold Wind to Valhalla.

End of Ham-Ant Digest V93 #17
